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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ldocket@crd.ge.com rosssr@crd.ge.com parkskl@crd.ge.com

Application No. Applicant(s) 10/747,712 JACKSON ET AL. Office Action Summary Examiner Art Unit Jessee Roe 1793 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 06 February 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-4.6-13.15-21 and 23-32 is/are pending in the application. 4a) Of the above claim(s) 23-32 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-4,6-13, and 15-21 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date ______.

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

Art Unit: 1793

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6 February 2008 has been entered.

Status of the Claims

Claims 1-4, 6-10, 11-13, 15-21 and 23-32 are pending wherein claims 1, 6-7, 9-11, 15, and 20-21 are amended; claims 5, 14 and 22 are canceled; and claims 23-32 are withdrawn from consideration.

Status of Previous Rejections

The previous rejection of claims 1-5 under 35 U.S.C. 103(a) as being unpatentable over Hensel et al. (US 2,370,242) is withdrawn in view of the Applicant's arguments and amendments to claim 1. The previous rejection of claims 1-4, 6-13, and 15-20 on the grounds of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-10 and 12 of copending Application 10/636407 is withdrawn in view of the Applicant's arguments and amendments to the claims.

Art Unit: 1793

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 6-13, and 15-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jackson et al. (US 6,623,692).

In regards to claim 1, Jackson et al. ('692) discloses an alloy having a composition relative to that of the instant invention as shown in the table below (claim 14).

Element	From Instant Claims	Jackson et al. ('692)	Overlap
	(atomic percent)	(atomic percent)	(atomic percent)
Pt & Pd	0 – about 49	0 – about 20	0 – about 20
W & Re	about 1 – about 15	0 – about 4	about 1 – about 4
Ru	0 – about 10	about 1.5 – about 4	about 1.5 – about 4
Zr, Ta, Ti, Hf	0 – less than 3	about 3 – about 9	-
Rh	at least about 50	balance	about 63 - about 95.5
		(about 63 - about 95.5)	

The Examiner notes that the disclosed amounts of platinum, palladium, tungsten, rhenium, and ruthenium for a rhodium-based alloy overlaps the composition of the instant invention, which is prima facie evidence of obviousness. MPEP 2144.05 I. It would have been obvious to one of ordinary skill in the art at the time the invention was made to select the claimed amounts of platinum, palladium, tungsten, rhenium, and ruthenium for a rhodium-based alloy from the rhodium-based alloy disclosed by Jackson et al. ('692) because Jackson et al. ('692) discloses the same utility throughout

Art Unit: 1793

the disclosed ranges.

With respect to "a fourth material, said fourth material comprising at least one of zirconium, yttrium, hafnium, tantalum, aluminum, titanium, scandium, elements of the lanthanide series, elements of the actinide series, and combinations thereof, wherein the fourth material is present in an amount less than 3 atomic percent" as in lines 9-11 of claim 1, the Examiner asserts that about 3 atomic percent of hafnium, zirconium, tantalum, and titanium as disclosed by Jackson et al. ('692) would read on "less than 3 atomic percent" because about 3 atomic percent of hafnium, zirconium, tantalum, and titanium would include amounts of hafnium, zirconium, tantalum, and/or titanium such as 2.999 atomic percent and therefore the instant invention would not patentably distinguish from the prior art. MPEP 2144.05 I. Furthermore, the instant claims recite "comprising" which would be open-ended and non-exclusive to additional, unrecited elements and Jackson et al. ('692) recite an element such as niobium that is not present in the instant claims. MPEP 2111.03.

With respect to the limitation "wherein said alloy comprises an A1-structured phase at temperatures greater than about 1000°C in an amount of at least about 90% by volume" of claim 1, the Examiner asserts that the alloy of Jackson et al. ('692) would have the A1 structured phase when subjected to the same treatment because Jackson et al. ('692) discloses substantially the same composition as that of the instant invention. Therefore, substantially similar properties would be expected. MPEP 2112.01

In regards to claims 2-3, Jackson et al. ('692) discloses about 63 to about 95.5

Art Unit: 1793

atomic percent rhodium and 0 to about 20 weight percent of platinum and palladium (claim 14).

In regards to claim 4, Jackson et al. ('692) discloses 0 to about 4 weight percent of tungsten and rhenium, which overlaps the range of about 1 to about 6 atomic percent as in the instant invention. Jackson et al. ('692) further discloses about 1.5 to about 4 weight percent ruthenium, which overlaps the range of "up to about 4 atomic percent" as in the instant invention and that chromium may be present in an amount of up to 0.5 atomic percent, which would be within the range of "said chromium is present in an amount up to about 6 atomic percent" (col. 6, lines 19-34).

In regards to claim 6, Jackson et al. ('692) discloses "from about three atomic percent to about nine atomic percent of at least one precipitation-strengthening metal selected from the group consisting of zirconium, niobium, tantalum, titanium, hafnium, and mixtures thereof;" (for example, column 2, lines 20 to 30). The instant invention recites "a fourth material, said

fourth material comprising at least one of zirconium, yttrium, hafnium, tantalum, aluminum, titanium, scandium, elements of the lanthanide series, elements of the actinide series, and combinations thereof". Because the instant claims recite the transitional term "comprising" and other elements may be present, it would have been obvious to one of ordinary skill in the art to modify the ranges of zirconium, hafnium, tantalum, titanium, and niobium such that the "fourth material is present in an amount from about 0.1 atomic % to about 2 atomic %" in order to achieve the desired precipitation strengthening within the alloy (col. 5, line 59 – col. 6, line 18). MPEP

Art Unit: 1793

2144.05 II.

In regards to claims 7-8, Jackson et al. ('692) discloses a graph of oxidation data and oxidation resistance (oxide forming underneath the surface) and weight gain due to internal oxidation (col. 2, line 39, col. 3, lines 8-27, col. 5, lines 43-58, Figure 2 and Example 1). Because Jackson et al. ('692) discloses substantially similar materials used as a "fourth material", it would be expected that these materials would form oxides as well. MPEP 2112.01 I. However, the recitation "up to" as in claim 8 would not necessitate the presence of oxide particles because "up to" would include 0 volume percent.

In regards to claim 9, because Jackson et al. ('692) discloses that the alloy would be rhodium-based and the zirconium, tantalum, titanium, hafnium and niobium would be present in an amount of from about 3 atomic percent to about 9 atomic percent (lesser amount) (solute), it would be expected that these elements would be dissolved in the rhodium alloy (solvent).

In regards to claim 10, Jackson et al. ('692) discloses an alloy having a composition relative to that of the instant invention as shown in the table below (claim 14).

Element	From Instant Claims	Jackson et al. ('692)	Overlap
	(atomic percent)	(atomic percent)	(atomic percent)
Pt & Pd	0 – about 49	0 – about 20	0 – about 20
W & Re	about 1 – about 6	0 – about 4	about 1 - about 4
Ru	0 – about 8	about 1.5 – about 4	about 1.5 - about 4
Zr, Ta, Ti, Hf	0 – less than 3	about 3 – about 9	-
Rh	at least about 50	balance	about 63 - about 95.5
		(about 63 - about 95.5)	

The Examiner notes that the disclosed amounts of platinum, palladium,

Art Unit: 1793

tungsten, rhenium, and ruthenium for a rhodium-based alloy overlaps the composition of the instant invention, which is prima facie evidence of obviousness. MPEP 2144.05 I. It would have been obvious to one of ordinary skill in the art at the time the invention was made to select the claimed amounts of platinum, palladium, tungsten, rhenium, and ruthenium for a rhodium-based alloy from the rhodium-based alloy disclosed by Jackson et al. ('692) because Jackson et al. ('692) discloses the same utility throughout the disclosed ranges.

With respect to "a fourth material, said fourth material comprising at least one of zirconium, yttrium, hafnium, tantalum, aluminum, titanium, scandium, elements of the lanthanide series, elements of the actinide series, and combinations thereof, wherein the fourth material is present in an amount less than 3 atomic percent" as in lines 10-13 of claim 10, the Examiner asserts that about 3 atomic percent of hafnium, zirconium, tantalum, and titanium as disclosed by Jackson et al. ('692) would read on "less than 3 atomic percent" because about 3 atomic percent of hafnium, zirconium, tantalum, and titanium would include amounts of hafnium, zirconium, tantalum, and/or titanium such as 2.999 atomic percent and therefore the instant invention would not patentably distinguish from the prior art. MPEP 2144.05 I. Furthermore, the instant claims recite "comprising" which would be open-ended and non-exclusive to additional, unrecited elements and Jackson et al. ('692) recite an element such as niobium that is not present in the instant claims. MPEP 2111.03.

With respect to the limitation "wherein said alloy comprises an A1-structured

Art Unit: 1793

phase at temperatures greater than about 1000°C in an amount of at least about 90% by volume" of claim 10, the Examiner asserts that the alloy of Jackson et al. ('692) would have the A1 structured phase when subjected to the same treatment because Jackson et al. ('692) discloses substantially the same composition as that of the instant invention. Therefore, substantially similar properties would be expected. MPEP 2112.01 l.

Still regarding claim 10, Jackson et al. ('692) discloses about 63 to about 95.5 atomic percent rhodium and 0 to about 20 weight percent of platinum and palladium (claim 14).

In regards to claim 11, Jackson et al. ('692) discloses an alloy having a composition relative to that of the instant invention as shown in the table below (claim 14).

Element	From Instant Claims	Jackson et al. ('692)	Overlap
	(atomic percent)	(atomic percent)	(atomic percent)
Pt & Pd	0 – about 49	0 – about 20	0 – about 20
W & Re	about 1 – about 15	0 – about 4	about 1 – about 4
Ru	0 – about 10	about 1.5 – about 4	about 1.5 – about 4
Zr, Ta, Ti, Hf	0 – less than 3	about 3 – about 9	-
Rh	at least about 50	balance	about 63 - about 95.5
		(about 63 - about 95.5)	

The Examiner notes that the disclosed amounts of platinum, palladium, tungsten, rhenium, and ruthenium for a rhodium-based alloy overlaps the composition of the instant invention, which is prima facie evidence of obviousness. MPEP 2144.05 I. It would have been obvious to one of ordinary skill in the art at the time the invention was made to select the claimed amounts of platinum, palladium, tungsten, rhenium, and ruthenium for a rhodium-based alloy from the rhodium-based alloy disclosed by Jackson

Art Unit: 1793

I.

et al. ('692) because Jackson et al. ('692) discloses the same utility throughout the disclosed ranges.

With respect to "a fourth material, said fourth material comprising at least one of zirconium, yttrium, hafnium, tantalum, aluminum, titanium, scandium, elements of the lanthanide series, elements of the actinide series, and combinations thereof, wherein the fourth material is present in an amount less than 3 atomic percent" as in lines 11-13 of claim 11, the Examiner asserts that about 3 atomic percent of hafnium, zirconium, tantalum, and titanium as disclosed by Jackson et al. ('692) would read on "less than 3 atomic percent" because about 3 atomic percent of hafnium, zirconium, tantalum, and titanium would include amounts of hafnium, zirconium, tantalum, and/or titanium such as 2.999 atomic percent and therefore the instant invention would not patentably distinguish from the prior art. MPEP 2144.05 I. Furthermore, the instant claims recite "comprising" which would be open-ended and non-exclusive to additional, unrecited elements and Jackson et al. ('692) recite an element such as niobium that is not present in the instant claims. MPEP 2111.03.

With respect to the limitation "wherein said alloy comprises an A1-structured phase at temperatures greater than about 1000°C in an amount of at least about 90% by volume" of claim 11, the Examiner asserts that the alloy of Jackson et al. ('692) would have the A1 structured phase when subjected to the same treatment because Jackson et al. ('692) discloses substantially the same composition as that of the instant invention. Therefore, substantially similar properties would be expected. MPEP 2112.01

Art Unit: 1793

With respect to the recitation "for use in a high temperature, oxidative environment" of claim 11 the Examiner notes that this recitation would not structurally limit the rhodium-based alloy and has therefore been considered an intended use of the alloy. MPEP 2111.02 II.

In regards to claim 12, Jackson et al. ('692) discloses about 63 to about 95.5 atomic percent rhodium and 0 to about 20 weight percent of platinum and palladium (claim 14).

In regards to claim 13, Jackson et al. ('692) discloses 0 to about 4 weight percent of tungsten and rhenium, which overlaps the range of about 1 to about 6 atomic percent as in the instant invention. Jackson et al. ('692) further discloses about 1.5 to about 4 weight percent ruthenium, which overlaps the range of "up to about 4 atomic percent" and that chromium may be present in an amount of up to 0.5 atomic percent, which would be within the range of "said chromium is present in an amount up to about 6 atomic percent" as in the instant invention (col. 6, lines 19-34).

In regards to claim 15, Jackson et al. ('692) discloses a graph of oxidation data and oxidation resistance (oxide forming underneath the surface) and weight gain due to internal oxidation (col. 2, line 39, col. 3, lines 8-27, col. 5, lines 43-58, Figure 2 and Example 1). Because Jackson et al. ('692) discloses substantially similar materials used as a "fourth material", it would be expected that these materials would form oxides as well. MPEP 2112.01 I.

In regards to claims 16-17 and 19, Jackson et al. ('692) discloses wherein the alloy would be used for blades and vanes for gas turbines (col. 2, lines 57-67).

Art Unit: 1793

In regards to claim 20, Jackson et al. ('692) discloses an alloy having a composition relative to that of the instant invention as shown in the table below (claim 14).

Element	From Instant Claims	Jackson et al. ('692)	Overlap
	(atomic percent)	(atomic percent)	(atomic percent)
Pt & Pd	0 – about 49	0 – about 20	0 – about 20
W & Re	about 1 – about 6	0 – about 4	about 1 - about 4
Ru	0 – about 8	about 1.5 – about 4	about 1.5 – about 4
Zr, Ta, Ti, Hf	0 – less than 3	about 3 – about 9	-
Rh	at least about 50	balance	about 63 - about 95.5
		(about 63 - about 95.5)	

The Examiner notes that the disclosed amounts of platinum, palladium, tungsten, rhenium, and ruthenium for a rhodium-based alloy overlaps the composition of the instant invention, which is prima facie evidence of obviousness. MPEP 2144.05 I. It would have been obvious to one of ordinary skill in the art at the time the invention was made to select the claimed amounts of platinum, palladium, tungsten, rhenium, and ruthenium for a rhodium-based alloy from the rhodium-based alloy disclosed by Jackson et al. ('692) because Jackson et al. ('692) discloses the same utility throughout the disclosed ranges.

With respect to "a fourth material, said fourth material comprising at least one of zirconium, yttrium, hafnium, tantalum, aluminum, titanium, scandium, elements of the lanthanide series, elements of the actinide series, and combinations thereof, wherein the fourth material is present in an amount less than 3 atomic percent" as in lines 11-14 of claim 1, the Examiner asserts that about 3 atomic percent of hafnium, zirconium, tantalum, and titanium as disclosed by Jackson et al. ('692) would read on "less than 3

Art Unit: 1793

atomic percent" because about 3 atomic percent of hafnium, zirconium, tantalum, and titanium would include amounts of hafnium, zirconium, tantalum, and/or titanium such as 2.999 atomic percent and therefore the instant invention would not patentably distinguish from the prior art. MPEP 2144.05 I. Furthermore, the instant claims recite "comprising" which would be open-ended and non-exclusive to additional, unrecited elements and Jackson et al. ('692) recite an element such as niobium that is not present in the instant claims. MPEP 2111.03.

With respect to the limitation "wherein said alloy comprises an A1-structured phase at temperatures greater than about 1000°C in an amount of at least about 90% by volume" of claim 20, the Examiner asserts that the alloy of Jackson et al. ('692) would have the A1 structured phase when subjected to the same treatment because Jackson et al. ('692) discloses substantially the same composition as that of the instant invention. Therefore, substantially similar properties would be expected. MPEP 2112.01

Still regarding claim 20, Jackson et al. ('692) discloses about 63 to about 95.5 atomic percent rhodium and 0 to about 20 weight percent of platinum and palladium (claim 14).

With respect to the recitation "for a gas turbine assembly", the Examiner notes that this recitation would not structurally limit the rhodium-based alloy and has therefore been considered an intended use of the alloy. MPEP 2111.02 II.

In regards to claim 21, Jackson et al. ('692) discloses a method for making an article having a composition relative to that of the instant invention as shown in the table

Art Unit: 1793

on the following page (claim 14).

Element	From Instant Claims (atomic percent)	Jackson et al. ('692) (atomic percent)	Overlap (atomic percent)
Pt & Pd	0 – about 49	0 – about 20	0 – about 20
W & Re	about 1 – about 15	0 – about 4	about 1 - about 4
Ru	0 – about 10	about 1.5 – about 4	about 1.5 - about 4
Zr, Ta, Ti, Hf	0 – less than 3	about 3 – about 9	-
Rh	at least about 50	balance	about 63 - about 95.5
		(about 63 - about 95.5)	

The Examiner notes that the disclosed amounts of platinum, palladium, tungsten, rhenium, and ruthenium for a rhodium-based alloy overlaps the composition of the instant invention, which is prima facie evidence of obviousness. MPEP 2144.05 I. It would have been obvious to one of ordinary skill in the art at the time the invention was made to select the claimed amounts of platinum, palladium, tungsten, rhenium, and ruthenium for a rhodium-based alloy from the rhodium-based alloy disclosed by Jackson et al. ('692) because Jackson et al. ('692) discloses the same utility throughout the disclosed ranges.

With respect to "a fourth material, said fourth material comprising at least one of zirconium, yttrium, hafnium, tantalum, aluminum, titanium, scandium, elements of the lanthanide series, elements of the actinide series, and combinations thereof, wherein the fourth material is present in an amount less than 3 atomic percent" as in lines 11-13 of claim 21, the Examiner asserts that about 3 atomic percent of hafnium, zirconium, tantalum, and titanium as disclosed by Jackson et al. ('692) would read on "less than 3 atomic percent" because about 3 atomic percent of hafnium, zirconium, tantalum, and titanium would include amounts of hafnium, zirconium, tantalum, and/or titanium such

Art Unit: 1793

as 2.999 atomic percent and therefore the instant invention would not patentably distinguish from the prior art. MPEP 2144.05 I. Furthermore, the instant claims recite "comprising" which would be open-ended and non-exclusive to additional, unrecited elements and Jackson et al. ('692) recite an element such as niobium that is not present in the instant claims. MPEP 2111.03.

With respect to the limitation "wherein said alloy comprises an A1-structured phase at temperatures greater than about 1000°C in an amount of at least about 90% by volume" of claim 21, the Examiner asserts that the alloy of Jackson et al. ('692) would have the A1 structured phase when subjected to the same treatment because Jackson et al. ('692) discloses substantially the same composition as that of the instant invention. Therefore, substantially similar properties would be expected. MPEP 2112.01 l.

With respect to the recitation "for making an article for use in high temperature, oxidative environments" of claim 21, the Examiner notes that this recitation would not structurally limit the rhodium-based alloy and has therefore been considered an intended use of the alloy. MPEP 2111.02 II.

Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jackson et al. (US 6,623,692) as applied to claim 17 above, and further in view of Manty et al. (US 4,305,998).

In regards to claim 18, Jackson et al. ('692) discloses a rhodium-based alloy as shown above, but Jackson et al. ('692) do not specify that the alloy would be used as a

Application/Control Number: 10/747,712
Art Unit: 1793

coating.

Manty et al. ('998) discloses applying a protective coating to an aircraft engine component wherein the coating would be made of chromium, molybdenum, niobium, tantalum, vanadium, zirconium, platinum, or a combination thereof or an alloy of any of these metals (abstract and col. 1, lines 12-20).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply the rhodium-based alloy, as disclosed by Jackson et al. ('692), as a coating for an aircraft engine component, as disclosed by Manty et al. ('998), in order to prevent degradation of substrate engineering or mechanical properties, as disclosed by Manty et al. ('998) (abstract).

Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jackson et al. (US 6,623,692) as applied to claim 17 above, and further in view of McGill et al. (US 4,399,199).

In regards to claim 18, Jackson et al. ('692) discloses a rhodium-based alloy as shown above, but Jackson et al. ('692) do not specify that the alloy would be used as a coating.

McGill et al. ('199) discloses forming thermal barrier layers (coatings) consisting essentially of platinum group metals (platinum, palladium, and rhodium) on turbine blades in order to provide a barrier to combustion gas penetration to the underlying substrate and increase the efficiency of the engine by forming a very smooth surface (col. 2, line 51 - col. 3, line 17).

Therefore, it would have been obvious to one of ordinary skill in the art at the

Art Unit: 1793

time the invention was made to apply the rhodium-based alloy, as disclosed by Jackson et al. ('692), as a coating for a turbine blade, as disclosed by McGill et al. ('199), in order to provide a barrier to combustion gas penetration to the underlying substrate and increase the efficiency of the engine by forming a very smooth surface, as disclosed by McGill et al. ('199) (col. 2, line 51 - col. 3, line 17).

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Omum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Claims 1-4, 10-13, 16-17, and 19-21 are rejected on the grounds of nonstatutory obviousness-type double patenting as being unpatentable over claims 14 and 17-29 of U.S. Patent No. 6,623,692. Although the conflicting claims are not identical, they are not patentably distinct from each other because, as shown in the tables above, the instantly claimed amounts of platinum, palladium, tungsten, rhenium, and ruthenium are overlapped by the compositions of the rhodium-based alloy of claims

Art Unit: 1793

14 and 17-29 of U.S. Patent No. 6,623,692. With respect to "a fourth material, said fourth material comprising at least one of zirconium, yttrium, hafnium, tantalum, aluminum, titanium, scandium, elements of the lanthanide series, elements of the actinide series, and combinations thereof, wherein the fourth material is present in an amount less than 3 atomic percent" as in claims 1, 10, 11, 20 and 21, "from about three atomic percent to about nine atomic percent of at least one precipitation-strengthening metal selected from the group consisting of zirconium, niobium, tantalum, titanium, hafnium, and mixtures thereof' as in claim 14 of U.S. Patent No. 6,623,692 would read on "less than 3 atomic percent" because about 3 atomic percent of hafnium, zirconium, tantalum, and titanium would include amounts of hafnium, zirconium, tantalum, and/or titanium such as 2.999 atomic percent and therefore the instant invention would not patentably distinguish from the prior art. Furthermore, the Examiner asserts that the rhodium-based alloy of U.S. Patent No. 6,623,692 would have "an A1-structured phase at temperatures greater than about 1000°C, in an amount of at least 90% by volume" because the instant claims are overlapped by the composition of the rhodium-based of claims 14 and 17-29 of U.S. Patent No. 6.623.692.

Response to Arguments

Applicant's arguments filed 11 January 2008 have been fully considered but they are not persuasive.

The Applicant primarily argues that the instant invention is distinguished from Jackson et al. ('692) because Jackson et al. ('692) comprise between 3% and 9%

Art Unit: 1793

of zirconium, niobium, tantalum, titanium, hafnium, or mixtures thereof and Jackson et al. ('692) fails to teach an alloy composition including a material comprising at least of one of zirconium, yttrium, hafnium, tantalum, aluminum, titanium, scandium, elements of the lanthanide series, elements of the actinide series, and combinations thereof, wherein the material is present in an amount less than 3 atomic percent. In response, the Examiner notes that about 3 atomic percent of hafnium, zirconium, tantalum, and titanium as disclosed by Jackson et al. ('692) would read on "less than 3 atomic percent" because about 3 atomic percent of hafnium, zirconium, tantalum, and titanium would include amounts of hafnium, zirconium, tantalum, and/or titanium such as 2.999 atomic percent and therefore the instant invention would not patentably distinguish from the prior art. Furthermore, the instant claims recite "comprising" which would be openended and non-exclusive to additional, unrecited elements and Jackson et al. ('692) recite an element such as niobium that is not present in the instant claims. MPEP

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jessee Roe whose telephone number is (571) 272-5938. The examiner can normally be reached on Monday-Friday 7:30 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Roy V. King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/747,712 Page 19

Art Unit: 1793

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/John P. Sheehan/ Primary Examiner, Art Unit 1793

JR